

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827230012-6

Methods of determination of trinitro acids in solid mine

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827230012-6"

KUKHARENKO, T.A.; VVEDENSKAYA, T.Ye.

Complete decomposition of humic acids by metallic sodium in liquid ammonia. Khim.i tekhn. topl. no.6:25-34 Je '56. (MLRA 9:9)

1.Institut goryuchikh iskopayemukh Akademii nauk SSSR.
(Humic acid)

15-57-3-3459

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,
p 143 (USSR)

AUTHOR: Kukharenko, T. A.

TITLE: Distinctive Features in the Composition and Properties
of Humic Acids in Coals and Their Significance in Clas-
sification (Osobennosti sostava i svoystv guminovykh
iskopayemykh ugley i ikh klassifikatsionnoye znacheniye)

PERIODICAL: Tr. Labor. geol. uglya AN SSSR, 1956, Nr 6, pp 164-171

ABSTRACT: The author describes the changes due to humic acids in
solid mineral fuels in various stages of coal-formation.
These stages are controlled by the fundamental composi-
tion and amount of the acids. The distinctive proper-
ties of bituminous coal weathered by humic acids are
noted. These properties permit one to distinguish such
coals from brown coals weathered by humic acids. The
optical density and the coagulation threshold in alka-
line solutions are the criteria. During transitions
from the lower stages of coal development to the higher

Card 1/2

15-57-3-3459

Distinctive Features in the Composition (Cont.)

(not excluding weathered coal), the optical density of the humic acids increases. The coagulation threshold is determined by the degree of dispersion of the humic acids, which diminishes in the process of coal formation and is accompanied by complex structures of the organic materials in the coal. A genetic classification of the humic acids in solid mineral fuels is proposed. Methods are suggested for preparing alkaline solutions of the humic acids and for determining the coagulation threshold and the optical density.

Card 2/2

A. N. G.

KUKHARENKO, T. A.

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of solid mineral fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5444

Author: Kukharenko, T. A., Ryzhova, Z. A.

Institution: Laboratory of Coal Geology, Academy of Sciences USSR

Title: Investigation of Changes in Composition of the Organic Mass of Mineral Coal During the Process of Its Erosion

Original

Publication: Tr. Labor. geol. uglya AN SSSR, 1956, No 6, 183-188

Abstract: Investigated were changes in composition of the organic mass of lustrous coal (PZh grades containing 90-92% vitrain) during erosion. As erosion progresses there are observed a sharp decrease in sintering capacity of the coal and its complete elimination prior to the formation of humic acids (HA). HA of eroded coal, as compared with HA of brown coal, are characterized by a lower content in H, higher optical density and a lower value of coagulation threshold; at the same time their x-ray photographs resemble those of not eroded coal.

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of solid mineral fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5444

Abstract: Content of neutral substances in the coal decreases with erosion intensity while the content of acid substances, soluble in alcohol-benzene, is almost not altered, whereas the content of acid substances similar to HA is greatly increased, which is most characteristic of the erosion process.

Card 2/2

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827230012-6

KUKHARENKO, T. A.

The possibility of determining the different grades of coal

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827230012-6"

KUKHARENKO, T. A.
Effect of dilution on brown coal and oxidized
coal on testing of the coagulation threshold of
humic extracts. T. A. Kukharensko (Inst. of Com-
bustible Minerals Acad. Sci. USSR). Zavod.
Lab. 1956, 22 (6) 681-682. - The coagulation thresh-
old is determined by adding the smallest amount of an electrolyte

ammonium sulphate indicator. The result is calculated on the content of C or humic acid (with an assumed content of C of 67 per cent.). The extract is then diluted to give a content of humic acid of 0.02 per cent. and the coagulation is checked by a re-determination of the content of C in a series of tubes. If the content of C is less than 0.02 per cent., the test is repeated with larger portions of the extract and ex-
tract plus excess PPTA. A similar test is carried out in a further series of tubes in which the concen-

tration of humic acid is 0.005 per cent.

KUKHARENKO, T.A.

1091. EXHAUSTIVE CLEAVAGE OF HISTIC ACIDS OF BROWN COAL BY METALLIC SODIUM
Kukharenko, T.A. and Friedman, I., *J. Am. Chem. Soc.*, 62, 1171, 1940.

Sodium in liquid ammonia was followed by examination of the sulfide.

1091.

C.A.

KUKHARENKO, T. A.

AUTHOR: Kukharenko, T. A. (Moscow).

24-2-13/28

TITLE: Review of the work carried out in the Soviet Union on investigating the chemical structure and the origin of solid mined fuels. (Obzor rabot po issledovaniyu khimicheskoy struktury i proiskhozhdeniya tverdykh goryuchikh iskopayemykh, provedennykh v SSSR).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, No.2, pp. 114-122 (USSR).

ABSTRACT: According to the calculations of the Soviet Resources Committee, the Soviet Union is the first country in the world as regards reserves of solid fuels. In this paper the author reviews briefly work carried out in the Soviet Union during the forty years of Soviet rule. The subject matter is dealt with under the following headings: peat stage of the coal, lignite stage of mined coal, hard coal, extraction of hard coal, hydrogenation of hard coal, oxidation of hard coal, hydrolysis of hard coal, heat treatment of hard coal, investigation of the structure of coal by X-ray structural analysis, infra-red spectroscopy, investigation by means of electron microscopes, colloidal properties of hard coal, mechanical properties of hard coal, modern conceptions on the structure of hard coal,

Card 1/2

24-2-13/28

Review of the work carried out in the Soviet Union on investigating the chemical structure and the origin of solid mined fuels.

successes achieved in investigating sapropelites, investigations relating to the origin of coal, investigation in the field of scientific and industrial classification of coal, scientific classification of coal, industrial classification of coal. Under each of these headings the work carried out by Soviet scientists is summarised very briefly, giving the names of the individual teams who carried out the respective research work and also in some cases mentioning very briefly the results.

There are 66 references, all of which are Russian.

SUBMITTED: November 11, 1957.

AVAILABLE: Library of Congress.

Card 2/2

SOV/24-58-11-39/42

AUTHORS: Kukharenko, T. A. and Lyubimova, S. L. (Moscow)

TITLE: On Determining the Grade of Coal from an Oxidised
Sample (Ob opredelenii marki uglya po okislennoy probe)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh
Nauk, 1958, Nr 11, pp 143-144 (USSR)

ABSTRACT: Earlier work of the authors as well as the work described
in this paper shows that the properties of alkali solutions
of humic acids produced during soft oxidation of the
residues of hard coal, which has been intensively weathered,
can be utilised for developing a method of determining
the grade of coal from an oxidised specimen. The results
obtained for two coals are given.
There are 3 figures, 1 table and 3 Soviet references.

SUBMITTED: April 7, 1958

Card 1/1

KURKARENKO T. A.

ОПИСАНИЕЛНАЯ ДИСТРУКЦИИ ИСКОЛДАЕМЫХ УГЛЕЙ
КАК МЕТОД ПОЗНАНИЯ ИХ СТРУКТУРЫ
И КЛАССИФИКАЦИИ

Т. А. Куркаренко

VIII Mandel'gov Congress for General and Applied Chemistry in
Section of Chemistry and Chemical Technology of Fuels,
publ. by Acad. Sci. USSR, Moscow 1979
abstracts of reports scheduled to be presented at above mentioned congress,
Moscow, 19 March 1979.

KUZHARENKOV, T.A.

TABLE I BOOK EXPLORATION
NIN/2956

12(7)	Akademika Nauk Akad. Nauk SSSR. Izdat. geologichesk. i tektonichesk. Nauk, Moscow, All General Geographical Survey Institute (Ministry of Solid Fuels) Moscow, All 1959. 350 p. Printed slip inserted. 2,000 copies printed.	607
Sponsoring Agent: Vsesoyuznoye Naucheskoye izdatelstvo in. D. I. Mendeleeva. Naukovoye izdatelstvo.		
Rep. Ed.: I. M. Kurnakov, Corresponding Member, USSR Academy of Sciences, and K. G. Tsvet, Doctor of Chemical Sciences; Ed. of Publishing House: A. N. Butovskiy, Tech. Ed.: L. P. Kuz'mina.		
PURPOSE: This collection of articles is intended for specialists, geologists, and other specialists interested in the genesis of solid mineral fuels, and other specialists interested in the genesis of solid mineral fuels have been prepared for presentation at the 2nd All-Union Conference on this subject. The formation of humic acids and peat from the decomposition of microorganic and plant remains is discussed in connection with studies on the origin of hard coal and brown coal, and on the role of certain mineral components in the coal-forming process. The chemical composition of peat and the organic acids of coal are analyzed and shown in a number of tables. Various humic acids, celluloses are analyzed, and the brown coals of the Dvoryanovskoye basin. Metamorphism and carbonization of coal found in different parts of the Urals and the Urals-Uralia are also discussed. The transformation of parent matter into combustible materials is analyzed. References concerning individual articles.	69	
Bands/PP. Ed.: 2. Genesis of Estonian Anthracite Oil Shale		
Fedin, A. S. On the Genesis of the Origin of Baltic Anthracite Oil Shale	77	
Lavrent'ev, E. M. and I. A. Vil'men. Lignite and Tardite Stages of Coal Formation	98	
Syntseva, I. F. Origin of Brown Coal in the Dvoryanovskoye Basin of the Urals	105	
Gerasimov, I. M. Interlayer Carboniferous of Mesozoic Coal Found in the Eastern Part of the Central and Northern Urals	123	
Dobrolyubov, I. I. Petrographic and Chemical Characteristics of Some Types of Coal From Volchanskoye and Sogdianskoye Deposits	137	
Stepanov, I. I. Conditions of Formation of Slightly Carbonized Coal From Shaly and Brown Coal From Sedimentary and Vesicular-Bubbly Deposits of the Southern Urals	143	
Korshikov, V. I. Metamorphics of Brown Coal From Sedimentary and Vesicular-Bubbly Deposits of the Eastern Flank of the Southern Urals	159	
Kondratenko, A. I. Geological Conditions of Transformation of Coal Shales in the Southeastern Part of the Russian Platform	165	
Ostomsky, M. Yu. Some Possible Conditions Under Which Coal Forms Coal Shales Formed at the Kuznetsk Basin	180	
Safonov, D. Z. Evolution of Hard Coal During Metamorphism	189	
Shishenin, L. Yu. Changes in Microscopic Characteristics of Charcoal Coal of the Donbas During Metamorphism	195	
Kalitinenko, V. V. Genesis of Jermuk Coal at Tura	201	
Gorbunov, I. V. Organic Matter in Coal	202	
Kostochkin, V. I. Some General Physical and Chemical Questions Concerning the Coal-Forming Process	207	
Tsvet, K. G. Characteristics of the Process of Fractionation of Trace Matter into Present Combustible Minerals and the Connection of These Characteristics With the Principal Properties of Combustible Minerals	208	
Lebedev, I. I. Genetic Features of the Coal Substances as Ascertained by Petrographical Methods	209	
Lebedev, V. I. Chemical Nature of the Main Organic Substances of Hard and Brown Coal and Changes During Metamorphism	209	
Rubarevskiy, T. A. Changes in the Structure and Properties of Fuels During the Coal-Forming Process	210	
Tsvet, K. G. Role of Mineral Elements in the Coal-Forming Process	210	
Kostandy, T. F., A. I. Schubert, and A. M. Morozov. Genesis of Organic Sulphur Compounds Contained in Coal	210	

KUKHARENKO, T.A.; YAKATRININA, L.N.

Determining phenol hydroxyls in coals by the azo coupling method.
Trudy IGI 8:142-149 '59. (MIRA 13:1)
(Coal--Analysis)

KUKHARENKO, T.A.; SAVEL'YEV, A.S.

Hydrogenation of humic acids in solid fuels at various stages of coal
formation. Trudy IGI 8:150-162 '59. (MIRA 13:1)
(Coal geology) (Humic acids)

KUKHARENKO, T.A.; RYZHOVA, Z.A.; BABINKOVA, N.I.

Method for the differentiation of brown coals from weathered
coals. Trudy IGI 8:163-171 '59. (MIRA 13:1)
(Coal--Classification) (Lignite)

KUKHARENKO, T.A.; VVEDENSKAYA, T.Ye.

Water soluble acids of solid mineral fuels. Pochvovedenie
no.12; 51-58 D '59. (MIRA 13:4)

1. Institut goryuchikh iskopayemykh Akademii nauk SSSR.
(Peat) (Coal) (Acids, Organic)

AUTHORS: Kukharenko, T.A., Yekaterinina, L.N. SOV/80-32-2-51/56

TITLE: The Reaction of Humic Acids With Dimedon (Reaktsiya guminovykh kislot s dimeronom)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2,
pp 462-463 (USSR)

ABSTRACT: Humic acids of peat and coal react with dimedon which is a specific reagent for aldehydes. Several types of peat and coal were investigated as to their aldehyde content. The results are given in a table. The aldehyde content of humic acids varies from 0.24 - 1.36 meq/g. The content of aldehyde groups is lower than the general content of carbonyl groups which is explained by the presence of ketone groups. There is 1 table and 5 references, 3 of which are Soviet and 2 German.

SUBMITTED: February 7, 1958

Card 1/1

SOV/80-32-4-37/47

5(3)

AUTHORS: Kukharenko, T.A. and Yekaterinina, L.N.

TITLE: On the Cryoscopical Determination of Molecular Weight of Humic Preparations in Pyrocatechin (Ob opredelenii molekulyarnogo vesa guminovykh preparatov krioskopicheski v pirokatekhine)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 909-913 (USSR)

ABSTRACT: In view of the contradictory data available in the literature on the molecular weight of humic acids, the authors undertook a new determination of it for peats, brown coals and weathered coals from various pits. They made use of the method developed by Smith and Howard [Ref 4] and Polansky and Kinney [Ref 6] by dissolving humic acids in the pyrocatechin. The results of determination are given in Table 1. Analyzing the figures obtained, the authors noticed certain contradictions with the values known from other sources; they investigated the reason and found that humic acids interacted with phenol hydroxyl groups of the pyrocatechin, which resulted in the formation of ester and water, and this led to a decrease of the molecular weight of the compounds under investigation. Therefore the

Card 1/2

SOV/80-32-4-37/47

On the Cryoscopial Determination of Molecular Weight of Humic Preparations in Pyrocatechin

authors conclude that pyrocatechin can not be used as a solvent in the cryoscopic method of determining the molecular weight of humic compounds.

There are 3 tables and 7 references, 1 of which is Soviet, 3 German, 2 American and 1 English.

SUBMITTED: December 17, 1957

Card 2/2

KUKHARENKO, Tat'yana Aleksandrovna; NEKRASOV, A.S., ovt.red.; TSUKERMAN,
S.Ya., red.izd-vs; SABITOV, A., tekhn.red.

[Chemistry and genesis of coal] Khimiia i genezis iskopaemykh
uglei. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu,
1960. 327 p. (MIRA 13:12)
(Coal geology) (Coal--Analysis)

KUKHARENKO, T.A.; YEKATERININA, L.N.

Hymatomelanic acids of fossil coal. Pochvovedenie no.12:64-70
D '60. (MIRA 14:1)

1. Institut goryuchikh iskopayemykh AN SSSR.
(Hymatomelanic acids)

KUKHARENKO, T.A.; RYZHOVA, Z.A.

Weathering of coals in varying stages of metamorphism. Trudy
IGI 14:44-57 '60. (MIRA 13:12)
(Coal weathering)

KUKHARENKO, T.A.; YEKATERININA, L.N.

Humic acids in weathered coal. Trudy IGI 14:58-72 '60.
(MIRA 13:12)
(Humic acid) (Coal weathering)

KUKHARENKO, T.A. (Moskva); VVEDENSKAYA, T.Ye. (Moskva);
GRIGOR'YEVA, Ye.A. (Moskva); SAVEL'YEV, A.S. (Moskva)

Obtaining of organic acids from weathered coal. Izv.
AN SSSR. Otd. tekhn. nauk. Met. i topl. no.4:143-149
Jl-Ag '61. (MIRA 14:8)

(Organic compounds)
(Coal)

KUKHARENKO, T.A. (Moskva); LYUBIMOVA, S.L. (Moskva)

Effect of mineral substances on the outcrop and composition
of coal weathering material in various stages of metamorphism.
Izv. AN SSSR. Otd. tekhn. nauk. Met. i topl. no.6:154-158 N-D
'61. (MIRA 14:12)

(Coal weathering) (Humic acid)

KUKHARENKO, T.A.; TSZYAN BIN-TSZYUN [Chiang Ping-shiung]

Infrared spectra of Chinese coals. Izv. AN SSSR. Ctd. tekhn.
nauk. Met. i topol. no.1:180-183 Ja-F '62. (MIRA 15:2)
(China--Coal--Spectra)
(Spectrum, Infrared)

KUKHARENKO, T.A.

Subernite in liptobiolith coal from China. Trudy IGI 21:
109-117 '63. (MIRA 16:11)

KUKHARENKO, T.A.

Data on the composition of peat and the process of its
formation as an initial stage in the coal-forming process.
Trudy IGI 21:134-143 '63. (MIRA 16:11)

KUZHARENKO, T. A., YERKAL'YEVICH, L. N.

Oxidation of the humatomelanic and humic acids of coals by potassium permanganate in an alkaline medium. Fizhveredje
no. 13:66-70 N '65. (MZhP 18:12)

I. Institut goryuchikh iskopaemykh, Moscow. Submitted April
14, 1965.

DORMIDONTOV, A., inzh.; KUKHARENKO, V., inzh.

"IUpiter" and "Signal" transistor radios. Radio no.8249-51 Ag '65.
(MIRA 18:7)

DERMIDONTOV, A., inzh.; KUKHARENKO, V., inzh.

The "UUpiter" and "Signal" radio receivers. Radio no. 8149-51. Ag '64.
(MIRA 17:11)

KUKHARENKO, V.K., inzh.; DEMIN, I.V., inzh.; GROSSMAN, V.S., inzh.;
SERIKOVA, V.F., inzh.

"Overall mechanization in butter factories" by A.V. Titov.
Reviewed by V.K. Kukharenko and others. Mekh. i avtom. proizv.
17 no. 5:55 My '63. (MIRA 16:6)

1. Gosudarstvennyy institut po proektirovaniyu masloboynoy,
zhirovoy, mylovarennoy, parfyumernoy i margarinovoy promysh-
lennosti.

(Creameries—Equipment and supplies)
(Titov, A.V.)

ИЗОБРАЖЕНИЯ

DEMIN, I.V., inzhener; MIKHAYLOV, Ye.I., inzhener; KUKHARENKO, V.K., inzhener.

Hydraulic filter for dust removal in oil plants. Masl.-zhir. prom. 23
no. 3:36-37 '57. (MIRA 10:4)

1. Giproshir.
(Air-purification)

BABENKO, S.F., inzh.; SHLEZING, M.Sh., inzh.; POLUYANSKIY, S.A., kand.
tekhn.nauk; DIKHTYAR, A.A., inzh.; KUKHARENKO, V.P., inzh.

Study of the 2PPN-1 rock loader. Vop. rud. transp. no.7:288-300
'63. (MIRA 16:9)

1. Krivorozhskiy zavod gornogo oborudovaniya "Kommunist" (for
Babenko, Shlezing). 2. Otdeleniye gornorudnykh problem Instituta
elektrotekhniki AN UkrSSR (for Poluyanskiy, Dikhtyar, Kukharenko).
(Mining machinery—Testing)

5(2)

AUTHORS: Dem'yanchuk, A. S., Kukharenko, Ye. D. SOV/75-14-1-8/32

TITLE: Spectro-Chemical Determination of Magnesium and Influence of the Magnesium Content on the Results of Silicon and Manganese Analysis in Cast Iron (Spektrokhimicheskoye opredeleniye magniya i vliyaniye yego soderzhaniya na rezul'taty analiza kremniya i margantsa v chugunakh)

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 1, pp 45-49 (USSR)

ABSTRACT: Cast iron usually contains 0.03 - 0.12% magnesium, to be found chiefly in compounds. (Ref 1). The authors of the present paper worked out a spectral-analytical determination method for magnesium in cast iron, by using a high-frequency spark as the energy source to excite the spectrum, (Ref 4). The determinations were carried out on an average dispersion spectrograph of the firm "Khil'ger" under earlier described conditions (Ref 5). An erect copper electrode was employed. The lines Mg 2802.69 Å - Fe 2806.98 Å served as analytical line pair. The method elaborated permits the determination of 0.005% and more of magnesium. The calibration straight line of the determination is characterized by a steep ascent. It is

Card 1/3

Spectro-Chemical Determination of Magnesium and
Influence of the Magnesium Content Upon the Results of Silicon and
Manganese Analysis in Cast Iron

SOV/75-14-1-6/32

illustrated in the paper. Reproducibility of results is good. It was found that the intensity of the spectral lines of silicon and manganese in cast iron strongly depends on the cast iron magnesium content in the alternating current - arc discharge. The line intensity of these elements increases markedly with growing magnesium content. With a magnesium content $>0.06\%$ 1 1/2 - 2 times as much silicon and manganese is found on the basis of the lines, as is actually contained in the metal. This effect basos on the fact that magnesium influences the evaporation process of silicon and manganese in the arc and consequently, also the determination results. When working with a generator IG-2 (condensed spark) and with a high-frequency spark, the magnesium content has no influence upon the spectral determination of Si and Mn. The working conditions under which the authors carried out their investigations are described. The results of a number of

Card 2/3

Spectro-Chemical Determination of Magnesium and SOV/75-14-1-8/32
Influence of the Magnesium Content Upon the Results of Silicon and
Manganese Analysis in Cast Iron

determinations of silicon and manganese in the presence and in
the absence of magnesium according to both methods (with and
without generator IG-2) are tabulated. There are 5 figures,
3 tables, and 10 Soviet references.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona i Institut
mashinovedeniya AN USSR, Kiyev (Institute of Electric
Welding imeni Ye. O. Paton and Institute of Machine Building,
AS UkrSSR, Kiyev)

SUBMITTED: November 25, 1957

Card 3/3

KUKHARENKO, Yu.A.

Considering the exchange correlation in excitation spectra
of nonequilibrium systems of interacting particles. Fiz.
met. i metalloved. 20 no.1:21-25 Jl '65.

(MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.
Lomonosova.

L 32595-66 EWT(m)/T
ACC NR: AP5018853

SOURCE CODE: UR/0126/65/020/001/0021/0025

7
B

AUTHOR: Kukharenko, Yu. A.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Calculation of exchange interaction in the excitation spectra for nonequilibrium systems of interacting particles /1/

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 1, 1965, 21-25

TOPIC TAGS: excitation spectrum, exchange reaction, dielectric permeability, kinetic equation, charged particle

ABSTRACT: The author proposes a simple method for taking account of exchange effects in solving the linearized kinetic equation for the combined excitation spectrum in nonequilibrium systems of charged particles. This method may also be used in the theory of fluctuations in nonequilibrium systems when solving equations for random deviations of the number of particles from the mean value and determining the spectral representations of various two-moment correlation functions of particles and

UDC: 530.145.6

Card 1/2

2

ACC NR: AP5018853

fields. A quantum kinetic equation is derived for the excitation spectrum of the system in the Hartree-Fock approximation taking account of particle correlation due to exchange interaction. Expressions are derived for the dielectric permeability of the system and the density variation for the number of particles. A dispersion equation is given for the energy spectrum and oscillation damping in a system of many particles and it is shown that the formulas for dielectric permeability and density fluctuation reduce to the conventional forms in the case where exchange correlation of the particles may be completely disregarded. While exchange interaction must be taken into account when the energy of vibrations in the quantum system is comparable with the average kinetic energy of the particles, calculations may be limited to the first approximation when the exchange effects are small. Otherwise, the density fluctuations for the number of particles and the dielectric permeability of the system must be determined from the exact expressions derived in this paper. The author is sincerely grateful to Yu. L. Klimontovich for constant interest in the work and valuable consultation. Orig. art. has: 35 formulas.

SUB CODE: 20/ SUBM DATE: 21Jul64/ ORIG REF: 009/ OTH REF: 003

Card 2/2 JK

S/188/63/000/001/002/014
B104/B102

AUTHORS: Aleksandrov, I. B., Kukharenko, Yu. A., Niukkanen, A. V.

TITLE: The kinetic equation in statistical quantum mechanics

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 1, 1963, 11 - 19

TEXT: Following the perturbation-theoretical method of N. N. Bogolyubov and K. P. Gurov (ZhETF, 17, 614, 1947) the kinetic equation for a spatially homogeneous quantummechanical system of Fermi particles is derived, which

is accurate up to the terms $\sim \epsilon^2$:

$$\begin{aligned} \frac{\partial n_{p_1}}{\partial t} = & \frac{\pi e^2}{(2\pi\hbar)^6 h} \int [|\tilde{\Phi}_0(p_1 - p'_1) - \tilde{\Phi}_0(p_1 - p'_2)|^2 \delta(p_1 + \\ & + p_2 - p'_1 - p'_2) \delta(T(p_1) + T(p_2) - T(p'_1) - T(p'_2)) \times \\ & \times \{n_{p_1}, n_{p_2}(1 - n_{p'_1})(1 - n_{p'_2}) - n_{p'_1} n_{p'_2}(1 - n_{p_1}) \times \\ & \times (1 - n_{p_2})\} dp'_1, dp'_2, dp_2. \end{aligned} \quad (21),$$

$\epsilon \ll 1$. This equation agrees with that derived by Bogolyubov and contains
Card 1/2

The kinetic equation in ...

S/188/63/000/001/002/014
B104/B102

the two-particle scattering amplitudes in the first Born approximation. In the development of the chains of the equation for the correlation functions an initial condition for the weakening of the correlation was applied which differs from that known in quantum mechanics: It is assumed that the correlative deviations of the distribution functions $F_2(1,2)$ and $F_3(1,2,3)$ from the products are small; the operator $g(1,2,t)$ is introduced which tends to zero as $t \rightarrow -\infty$. The possibilities of obtaining approximations of higher orders are discussed.

ASSOCIATION: Kafedra elekrodinamiki i kvantovoy teorii (Department of Electrodynamics and Quantum Theory)

SUBMITTED: April 29, 1962

Card 2/2

ALEKSANDROV, I. B.; KUKHARENKO, Yu. A.; NIUKKANEN, A. V.

Double-timed one-particle Green's functions for a nonideal
Fermi system. Vest.Mosk.un Ser.3:Fiz., astron.19 no. 2:43-51
Mr-Ap '64. (MIRA 17:5)

1. Kafedra teoreticheskoy fiziki Moskovskogo universiteta.

FAIN, Yu.B.; KUKHARENKO, Yu.M.

Tectonics of Pre-Devonian formations in the Birsk anticline.
Geol.nefti i gaza 7 no.2:21-26 F '63. (MIRA 16:2)

1. Kaltasinskaya kontora bureniya i Arlanskaya promyslovo-geofizicheskaya kontora.
(Bashkiria—Geology, Structural)

ALEKSANDROV, I.B.; KUKHARENKO, Yu.A.; NIUKKANEN, A.V.

Kinetic equation for a nonideal Fermi-gas. Vest. Mosk. un.
Ser. 3: Fiz., astron. 18 no.2:15-24 Mr-Ap '63. (MIRA 16:6)

I. Kafedra statisticheskoy fiziki i mekhaniki Moskovskogo
universiteta.
(Cases, Kinetic theory of)

y

17

ALEKSANDROV, I.B.; KUKHARENKO, Y.I.A.; NIUKKANEN, A.V.

Kinetic equation of a nonideal Fermi-system. Dokl.AN SSSR 149
no.3:557-560 Mr '63. (MIRA 16:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком N.N.Bogolyubovym.
(Differential equations) (Quantum statistics)

ACCESSION NR: AP4033633

8/0188/64/000/002/0043/0051

AUTHOR: Aleksandrov, I. B.; Kukharenko, Yu. A.; Niukkanen, A. V.

TITLE: Repeated single-particle Green's functions for a nonideal Fermi system

SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya,
no. 2, 1964, 43-51

TOPIC TAGS: theoretical-physics, Green function, Fermi system, nonideal Fermi
system, single particle Green function

ABSTRACT: The authors present and analyze the derivation of equations for binary correlation functions and single-particle Green's functions for a somewhat nonideal Fermi system on the assumption of smallness of the potential energy of binary interaction in comparison with mean kinetic energy. By introduction of a mass operator it has been possible to obtain an equation of the Dyson type in a quadratic approximation relative to the small parameter of the theory of perturbations. In deriving the equations the authors used the condition of attenuation of correlations for spatially distant parts of the system. An expression has been found for the mass operator in the second approximation; this expression is used to compute the energy and attenuation of elementary excitations. The authors thank N. Bogolyubov (Jr.) and B. Sadovnikov for useful discussion of certain problems

Card 1/2

ACCESSION NR: AP4033633

considered in the paper." Orig. art. has: 44 equations.

ASSOCIATION: Kafedra teoreticheskoy fiziki, Moskovskiy universitet (Department of Theoretical Physics, Moscow University)

SUBMITTED: 22May63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: GP

NO REF Sov: 011

OTHER: 001

Card 2/2

L 41650-65 EMT(1)
ACCESSION NR: AP5006324

S/0126/64/019/002/0161/0168

AUTHOR: Klimontovich, Yu. L.; Kukharenko, Yu. A.

J C
B.

ABSTRACT: Quantum kinetic equation for a system of charged particles with regard to
collisions of the particles with waves

CITATION: Fizika metallov i metallovedeniye, v. 19, no. 2, 1965, 161-168

TOPIC TAGS: quantum kinetic equation, charged particle, particle interaction,
quantum equation, kinetic equation

ABSTRACT: A quantum kinetic equation is derived which takes particle collisions
into account as well as interaction of the particles with the cooperative oscillations
of the system. The equation also takes the exchange correlation of the par-
ticles into account, together with the variation in the spectrum of the waves
oscillation, together with the variation in the spectrum of the waves
The new equation contains additional members for the wave field. It is
not appear in similar equations previously derived (see Pines,
D., Schriffer, J. R., Phys. Rev., 1962, 125, 80+). Cf. g. Art. 18 in equations.

ASSOCIATION: Moskovskiy gosuniversitet im. M. V. Lomonosova (Moscow State University)

Card 1/2

Submitted: 19 JUNE 64

MATUSEVICH, M.G., kand.ekon.nauk; PASHKEVICH, O.N., kand.ekon.nauk;
MUKHINA, V.A., mladshiy nauchnyy sotrudnik; MARKOVA, K.Ye., kand.
ekon.nauk; SAVEL'YEV, I.T., mladshiy nauchnyy sotrudnik;
MERETSKAYA, T.A., kand.ekon.nauk; D'YAKOV, B.I., mladshiy nauchnyy
sotrudnik; Prinimali uchastiye: BEL'KO, S.P., mladshiy nauchnyy
sotrudnik; ANDROSOVICH, Ye.I., mladshiy nauchnyy sotrudnik;
KUKHAREV, B.Ye., mladshiy nauchnyy sotrudnik; REUT, S.B., starshiy
statistik. TIMOFEYEV, L., red.; VOLOKHANOVICH, I., tekhn.red.

[Capital assets of industry and their utilisation] Основные фонды
промышленности и их использование. Минск, Изд-во Акад. наук
БССР, 1960. 192 p. (MIRA 14:1)

1. Akademiya nauk BSSR, Minsk. Institut ekonomiki. 2. Institut
ekonomiki AM BSSR (for all, except Timofeyev, Volokhanovich).
(White Russia--Capital)

GRYAZNOV, Yu.N., inzh.; KUKHAREV, I.D., inzh.; MARKELOV, V.A., inzh.

Device for measuring the quantity of material on a scraper
conveyor. Mekh. i avtom. proizv. 19 no.7:30-32 J1 '65.
(MIRA 18:9)

KUKHAREV, M.

More attention to the work with leading specialists. Grazhd.av.
12 no.6:7-9 Je '55. (MLRA 9:5)

1. Nachal'nik politotdela Severokavkazskogo territorial'nogo
upravleniya Grazhdanskogo vozdushnogo flota.
(Communist Party of the Soviet Union--Party work)

KUKHAREV, M. N.

KUKHAREV, M. N. -- "Investigation of the Atomization of Fuels with Application to High-Speed Diesel Engines," Min Automobile Industry USSR, State Union Order of Labor Red Banner Automobile and Automobile Engine Sci Res Inst NAMI, Moscow, 1955 (Dissertation for the Degree of Doctor of Technical Sciences)

SO: Knizhnaya letopis', No. 37, 3 September 1955

GERSHMAN, I.I.; KUKHAREV, M.N.

Investigation of fuel atomization in a laboratory apparatus.
Avt. i trakt.prom. no.2:22-25 F '56. (MLRA 9:6)

I.Nauchno-issledovatel'skiy avtomotarnyy institut.
(Fuel--Testing)

KUKHAREV, M.N.

INVENTION - COMBUSTION CHAMBER FOR THE PROPULSION OF AIR

(Autom. Tract. Ind., Moscow, 1956, No. 11133) abstr. in Chem. Abstr., 1956,

VOL. 50, #20, p.2041. Fuel combustion is initiated in a closed combustion chamber provided with inlet and exhaust valves, fuel injection, pressure gauge, and thermocouples. Air from a compressed storage tank is admitted to the chamber and delivered by a pump. Since a single cylinder is used, the pressure is constant throughout the stroke. The invention is claimed to be suitable for aircraft, tractors, etc.

KUKHAREV M.N.

KHANIN, N.S.; kandidat tekhnicheskikh nauk; KALISH, O.O., doktor
tekhnicheskikh nauk; ANDRONOVA, T.B., kandidat tekhnicheskikh nauk;
~~KUKHAREV, M.N.~~, kandidat tekhnicheskikh nauk; GERSHMAN, I.I.;
CHAPKEVICH, V.A., kandidat tekhnicheskikh nauk;
YERMOLAYEV, P.S.

Review of the book "Internal combustion engines," Edited by
A.S. Orlin, N.S. Khanin and others. Avt. 1 trakt. prom. no.7:
45-46 Jl '56. (MLRA 9:10)

1. Nauchno-issledovatel'skiy avtomotornyy institut.
(Gas and oil engines) (Orlin, A.S.)

KUKHAREV, Z.M.

Characteristics from the viewpoint of engineering geology of
landslide phenomena on the right bank of the Volga near Vol'sk.
Vop. godrogeol. i inzh. geol. no.15:134-141 '57. (MIRA 11:5)
(Volga Valley--Landslides)

KUKHAREV, M.N.

11(4)

PHASE I BOOK EXPLOITATION

SOV/2764

Tsentral'nyy nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut

Issledovaniye raspylivaniya i goreniya dizel'nogo topliva (Investigation of
Atomization and Combustion of Diesel Fuel) Moscow, Mashgiz, 1959. 115 p.
(Series: Its: [Trudy] vyp. 87) 1,275 copies printed.

Ed. of Publishing House: I.A. Vasil'yeva; Tech. Ed.: V.D. El'kind;
Managing Ed. for Literature on Automotive, Transport, and Agricultural
Machine Building (Mashgiz): I.M. Bauman, Engineer; Editorial Board:
M.A. Pashin (Chairman), A.A. Lipgart (Deputy Chairman and Resp. Ed.),
A.A. Al'perovich, S.G. Borisov, M.I. Briskin, O.V. Dybov, Ya. G.
Zil'berberg, A.S. Lozar'; I.S. Lunev, P.V. Nagayev, Ya.M. Pevzner,
V.I. Pryadilov, K.S. Ramayya, O.V. Tamruchi, G.I. Samol', Ye.V. Sedova,
N.S. Khanin, A.A. Chapchayev, S.B. Chistozvonov, and E.M. Shkol'nikov.

PURPOSE: This publication is intended for scientists, engineers, and technicians
engaged in the production of automobile and tractor engines.

Card 1/3

Investigation of Atomization (Cont.)

SOV/2764

COVERAGE: This issue consists of two articles devoted to research on the atomization and combustion of Diesel fuels with varying physicochemical properties. The tests were conducted with laboratory apparatus without the use of engines. The equipment had a fuel unit of the divided type. The research included the study of flame development during injection from nozzles equipped with pin atomizers; variation of atomization during injection phases and the dependence of the atomization process on the design, regulation, and operation of the fuel apparatus, and on the parameters of the medium into which the fuel is injected; effect of the quality of atomization on the ignition and combustion of the fuel; and realization of optimum conditions for the atomization and evaporation of fuels. It was determined that there exists an optimum ignition delay resulting in the highest combustion rates. Bibliographies are given at the end of each article.

TABLE OF CONTENTS:

Kukharev, M.N. Study of Fuel Injection for Use in High-speed Diesel Engines	3
Introduction	3
Description of test equipment and research methods	4
Card 2/3	

Investigation of Atomization (Cont.)

SOV/2764

Study of the quality of atomization in a cylinder	16
Stroboscopic study of the quality of atomization	21
Generalization of results according to fineness of atomization	41
Study of flame propagation	44
Conclusions	54
Bibliography	55
Gershman, I. I. Effect of Atomization on the Ignition and Combustion of Diesel Fuel	
Introduction	57
Research method	57
Results of experimental research	61
Conclusions	72
Bibliography	114
	115

AVAILABLE: Library of Congress

Card 3/3

TM/gmp
1-22-60

KUKHAREV, M.N., kand. tekhn. nauk

Investigating the atomization of fuel for high-speed diesel engines.
[Trudy] NAMI no.87:3-56 '59, (MIRA 13:1)
(Diesel fuels) (Atomization)

KUKHAREV, M.N., kand.tekhn.nauk; STARIKOV, N.I., inzh.; KORETSKIY, N.I., inzh.

Expediency of changing the form of the cutoff window in the sleeve
of a fuel pump. Trakt. i selkhozmash. 32 no.3:14-15 Mr '62.

1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Tractors--Fuel systems) (MIRA 15:2)

KUKHAREV, M.N., kand. tekhn. nauk

Generalization of the results of investigating the propagation
of the fuel flame of pin-type injectors. Trakt. i sel'khozmas. 33 no.6:16-19 Je '63. (MIRA 16:7)

1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Diesel engines--Fuel systems)

KUKHAR' V., M.N., kand. tekhn. nauk

Studying the effect of the physical characteristics of fuel on
the basic parameters of the process of atomizing. Trakt. i
sel'khozmash. no.4:13-15 Ap '65. (MIRA 18:5)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

KUKHAREV, M.V.

Specific rigidity of teeth of textolite and polyamide gear wheels. Izv.vys.ucheb.zav.; prib. 5 no.1:136-139 '62. (MIRA 15:2)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy optiko-mekhanicheskikh priborov.

(Gearing)
(Plastics--Testing)

KUKHAREV, N.M., inzhener.

Methods of investigating soils abroad. Gidr. stroi. 26 no. 4:54-55
Ap '57. (MIRA 10:6)

(Europe--Soils--Analysis)
(United States--Soils--Analysis)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827230012-6

KUKHAREV, N. M.

KUKHAREV, N.M.

Landslides in the Lenin Hills. Gor. khos. Mosk. 32 no. 2:27-29 P '58.
(Moscow Province--Landslides) (MIRA 11:1)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827230012-6"

KUKHAREV, N.M.

Gaverns in loesslike clayey soils and the stability of structures.
Prom. stroi. 36 no.12:34-35 D '58.
(Caves) (Soil mechanics) (MIRA 12:1)

KUKHAREV, N.M., inzh.

Combined device for probing soil. Transp.stroi. 10 no.6:58
Je '60. (MIRA 13:7)
(Switzerland--Soil mechanics)

KUKHAREV, N.M.

Interstices in loess loams of the Krasnoyarsk Territory and their
genesis. Izv.vys.ucheb.zav.; geol. i razv. 4 no.11:102-105 N '61.
(MIRA 15:2)

1. Institut giprotransmost.
(Krasnoyarsk Territory--Loess)

KUKHAREV, N.M. (Moskva)

Landslides in the Vol'sk region. Priroda 50 no.12:58-59 D
'61. (MIRA 14:12)
(Vol'sk region--Landslides)

ALEKSANDROV, Yu.; PILIPUSHKO, I.; VOLCHENKO, V.; SENDEROV, I.; LIMARENKO, L;
YARKOV, G.; YEMTSEV, I.; KUKHAREV, V.; SHCHEKOTOVICH, P.; BOBOVICH, V.;
CHEREPAKOV, G.

They are raising the level of their qualifications. Zashch.rast.
ot vred.i bol. 7 no.5:61 My '62. (MIRA 15:11)
(Plants, Protection of--Study and teaching)

SHAROV, N.V.; SHAKHET, G.P.; RAMENOV, A.S.; KUKHAREV, P.P.; KLOCHKOV, S.A.,
retsenzent; MARTYNOV, S.F., retsenzent; OSIPOV, Ya.I., retsenzent.

[Machinery and apparatus for the fur industry] Mashiny i apparaty mekho-
vogo proizvodstva. Pod obshchei red. N.V.Sharova. Moskva, Gos. nauchno-
tekhn. izd-vo Ministerstva promyshlennyykh tovarov shirokogo potrebleniia
SSSR, 1953. 358 p.
(Fur industry) (MLRA 7:6)

L-08126-P EWT(m) FDN/DJ

ACC NR: AP6029988

(A,N)

SOURCE CODE: UR/0413/66/000/015/0195/0195

INVENTOR: Zhdanov, K. I.; Kazanskiy, B. P.; Kukharev, V. I.

ORG: none

TITLE: Variable-pitch propeller. Class 62, No. 184146

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 195

TOPIC TAGS: aircraft propeller, propeller blade, propeller pitch control, hydraulic device

ABSTRACT: An Author Certificate has been issued for a variable-pitch propeller consisting of a hub, blades, a hydraulic mechanism with a piston for changing the pitch, and a constant-rpm governor. To prevent the appearance of negative thrust in flight in the event of the simultaneous action of several defects in the power-plant system, the piston is equipped with a hydraulic sliding support consisting of a spring-supported slide valve. The valve has a regulated pressure chamber connected by a system of channels with a pressure regulator having power, altitude, flight-speed, and ambient-air-temperature transducers. [KT]

SUB CODE:01, 13 / SUBM DATE: 30Dec64

38
B

Card 1/1 nsf

UDC: 629.13.01/06

KUKHAREV, V.N.; KUKHARENKO, P.I.

Local air cooling in longwalls of transitional depth. Ugol' Ukr.
↳ no.10:27-28 O '60. (MIRA 13:10)

1. Dneprogiproshakht.
(Coal mines and mining--Air conditioning)

DUGANOV, G.V., kand.tekhn.anuk; BARATOV, E.I., kand.tekhn.nauk; KUKEAREV,
V.N., inzh.

Research on heat conditions in Krivoy Rog mines during the extension
of mining operations to low levels. Izv. vys.ucheb.zav.; gor.
zhur. no.5:34-41 1960. (MIRA 14:3)

l: Dnepropetrovskiy ordena Trudovogo Krasnogo Znamenj gornyy
institut imeni Artyoma. Rekomendovana kafedroy rudnichnoy
ventilyatsii.
(Krivoy Rog—Mine ventilation)

DUGANOV, G.V., dotsent; KUKHAREV, V.N., inzh.

Experimental studies of heat emission from rocks in coal mine stopes. Izv.vys.ucheb.zav.; gor.zhur. no.3:39-92 '61.

(MIRA 15:4)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artyoma; rekomendovana kafedroy rudnichnoy ventilyatsii Dnepropetrovskogo gornogo instituta.

(Rocks--Thermal properties) (Mine ventilation)

KUKHAREV, V.N., gornyy inzhener; KUKHARENKO, P.I., gornyy inzhener;
BABCHENKO, Yu.N., gornyy inzhener

Local air cooling in the Artem Mine of the Dzerzhinskugol' Trust.
Trudy Sem.po gor.tenlotekh. no. 3:119-127 '61. (MIRA 15:4)

1. Dneprogiproshakht.
(Krivoy Rog Basin—Mine ventilation)

DUGANOV, G.V., dotsent; KUKHAREV, V.N., gornyy inzhener; BARATOV, E.I.,
kard.tekhn.nauk-

Ways of improving the air condition in the mines of Donets Basin
Kadievka District. Ugol' Ukr. 5 no.10:24-26 0 '61. (MIRA 14:12)

1. Dnepropetrovskiy gornyy institut (for Duganov, Kukharev).
2. Institut teploenergetiki AN USSR (for Baratov).
(Donets Basin--Mine ventilation)

KALACHNIKOV, A.Ya., inzh.; KUKHARENKO, P.I., inzh.; KUKHAREV, V.N., inzh.

Mobile air conditioners for deep mines; response to N.V.Poliakov
and N.N.Khokhotva's article "Results of the experimental operation
of air conditioners for air cooling in longwalls." Ugol' 36 no.4:
58-59 Ap '61. (MIRA 14:5)

1. Dneprogiproshakht.

(Coal mines and mining—Air conditioning)
(Poliakov, N.V.) (Khokhotva, N.N.)

DUGANOV, G.V., kand.tekhn.nauk; KUKHAREV, V.N., inzh.; BARATOV, E.I.,
kand.tekhn.nauk

General study of the heat conditions of mines in the Kadiyevka
region of the Donets Basin. Trudy Sem.po gor.teplotekh. no.4:
155-161 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut im. Artyoma.
(Donets Basin--Mine ventilation)

ABRAMOV, F.A., prof.; DUGANOV, G.V., dotsent; KUKHAREV, V.N., inzh.;
CHERNIKOV, G.F.

Thermal atmospheric phenomena in the mines of Kadievugol'
Trust occurring in the transfer of mining to deep levels.
Ugcl' 37 no.9:52-55 S '62. (MIRA 15:9)

1. Dnepropetrovskiy gornyy institut.
(Donets Basin—Mine ventilation)

DUGANOV, Georgiy Vasil'yevich, doktor tekhn. nauk; BARATOV, Emil' Iosifovich, kand. tekhn. nauk; Prinimal uchastiye KUKHAREV, V.N.; NIKITIN, V.S., otv. red.; LUCHKO, V.S., red.izd-va; IL'INSKAYA, G.M., tekhn. red.

[Heat regime of mines] Teplovoi rezhim rudnikov. Moskva, Gos-gortekhizdat, 1963. 143 p.
(MINE VENTILATION)

DUGANOV, G.V.; KUKHAREV, V.N.

Geothermic studies of the Kadiyevskiy region in the Donets Basin.
Geofiz.sbor. no.1:116-119 '62. (MIRA 16:3)
(Donets Basin—Rocks—Thermal properties)

DUGANOV, G. V., doktor tekhn. nauk; KUKHAREV, V. N., inzh.

Experimental determination of the thermophysical properties
of rocks under mining conditions. Izv. vys. ucheb. zav.; gor.
zhur. 5 no.8:71-75 '62. (MIRA 15:10)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artyoma. Rekomendovana kafedroy rudnichnoy
ventilyatsii.

(Rocks—Thermal properties)

DUGANOV, G.V.; KUKHAREV, V.N.

Thermal calculations of local air cooling in stopes by means of
portable air conditioners. Izv. vys. ucheb. zav.; tsvet. met.
6 no.4:17-21 '63. (MIRA 16:8)

1. Dnepropetrovskiy gornyy institut, kafedra rudnichnoy venti-
lyatsii.
(Mine ventilation)

DUGANOV, G.V., doktor tekhn.nauk; CHERNIKOV, G.F., inzh.; KUKHAREV,
V.N., inzh.

Study of the oxidizing ability of coals under laboratory
conditions and in the mine. Izv.vys.ucheb.zav.; gor. zhur.
6 no. 12:21-25 '63. (MIRA 17:5)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artyoma. Rekomendovana kafedroy rudnichnoy
ventilyatsii.

DUGANOV, G.V., prof.; KUKHAREV, V.N., inzh.; CHERNIKOV, G.F.; MURAVEYNIK, V.I.

Regulating the thermal conditions in stopes of the Kadiyevka region
of the Donets Basin in the mining of steep coal seams. Izv.vys.ucheb.
zav.;gor.zhur. 7 no.9:63-67 '64. (MIRA 18:1)

1. Dnepropetrovskogo ordena Trudovogo Krasnogo Znameni gornyy institut
imeni Artyoma. Rekomendovana kafedroy rudnicichoy ventilyatsii.

DUGANOV, G.Ye; KUKILAEV, V.M.

Controlling the high air temperature in mines of the
Kadiyovka and Central Donets Basin regions. Izv. DGI 42:
183-186 '64. (MFA 18:11)

DUGANOV, G.V., prof.; GRIN'KO, N.K.; KUKHAREV, V.N., kand.tekhn.nauk; MACHIKOV, V.Ya.

Air conditioning of steeply pitching seams in the Kadiyevka region,
Donets Basin. Ugol' 40 no.9:60-65 S '65.

(MIRA 18:10)

1. Dnepropetrovskiy gornyy institut (for Duganov).
2. Kombinat Iuganskugol' (for Grin'ko).
3. Dneprogiproshakht (for Kukharev).
4. Trest Kadiyevugol' (for Machikov).

SOLODOVNIKOV, Ya.V., kand. tekhn. ryutik; MOSKOVSKIY, V.I., mchsh.
DZYBACHEV, V.M., kand. tekhn. reak.

Controlling beat conditions in mines of the central part of
the Donets Basin. Ugol' Ukr. 9 no.12:44-47. 9 '75.

(GLIA 10.1)

T. Dnepropetrovskiy gosudarstvennyy institut po proyektirovaniyu
shakhtyey ustanovok.

KUKHAREVA, A.D.

Policlinical department of the Vitebsk Provincia Hospital.
Zdrav.Bel. 9 no.1:11-12 J'63. (MIRA 16:8)

1. Glavnnyy vrach polikliniki imeni Lenina, Vitebsk.
(VITEBSK—HOSPITALS—OUTPATIENT SERVICES)

IVANOV, A.I.; KUKHAREVA, I.G.

Investigating the anode process during the electrolysis of titanium
tetrachloride in fused chloride salts. Titan i ego splavy no.8:
220-226 '62. (MIRA 16:1)
(Titanium—Electrometallurgy) (Fused salts)

LEVINA, M.Ye.; KUKHAR'VA, I.N.; KALITIN, V.I.

Phase diagrams of the systems $\text{Na}_2\text{BeF}_4 - \text{Na}_3\text{PO}_4$ and $\text{K}_2\text{BeF}_4 - \text{K}_3\text{PO}_4$. Izv. vys. ucheb. zav., khim. i khim. tekhn. 8 no.1: 3-10 '65. (MIRA 18:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra obshchey khimi.

KURKAREVA, L.V.

Methods of chlorine and chloropropylene derivatives of some
metal compounds. A. A. Vaynshtei, E. F. Mikhalev, etc.

4,4'-bis(chloromethyl)diphenyl oxide, m. 61°, were then
prep. The addn. of Hg (d. 1.7) to Me₂CO solns. of these
derivs. pdtd. the latter quantitatively. These were prep'd.
p-xylene, m. 174°, and the p-chloro-
derivs. of Phx, m. 199°, and of PhxCl, m. 200°.

7 MAY
2004

VANSHEYDT, A.A.; MEL'NIKOVA, Ye.P.; KUKHAREVA, L.V.; KRASOVYAK, M.G.

Method for the synthesis of dichloromethyl derivatives of naphthalene and diphenyl oxide. Khim. nauka i prom. 3 no. 287 '58. (MIRA 11:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Naphthalene) (Phenyl ether)

AUTHORS: Lebedeva, A. I., Inareva, L. V. SOV/79-28-10-51/60

TITLE: Investigation of the Isomerization and Dimerization Processes of Dimethyl Vinyl Carbinol as Dependent on the Percentage of the Reagent Contained (Issledovaniye protsessov izomerizatsii i dimerizatsii dimetilvinilkarbinola v zavisimosti ot pH reagenta) IV. Concerning the Structure of a New Geraniol Isomer (IV. K voprosu o stroyenii novogo izomera geraniola)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2782 - 2786 (USSR)

ABSTRACT: In their earlier paper Lebedeva and her collaborator investigated the dependence of the yield of terpene alcohols on the percentage of the reagent as the basis of the effect of the KHSO_4 dissolved in water on the dimethyl vinyl carbinol (Ref 1). The mixture of products obtained was not sufficiently characterized. In the present paper they succeeded three compounds, two of which were identical with the previously synthesized unsaturated ether (Ref 2) and the third with geraniol hydrate. The latter was dehydrated in

Card 1/4

Investigation of the Isomerization and Dimerization SOV/79-28-10-31/60
Processes of Dimethyl Vinyl Carbinol as Dependent on the Percentage of
the Reagent Contained. IV. Concerning the Structure of a New Geraniol
Isomer

vacuum with KHSO_4 trades, with a terpene alcohol
of the general formula $\text{C}_{10}\text{H}_{18}\text{O}$ different from geraniol
and linalool being obtained. The oxidation of this
alcohol yielded the aldehyde, the hydration by the
way of Pt yielded the saturated alcohol that was
identical with tetrahydro geraniol. In the catalytic
hydration of the alcohol $\text{C}_{10}\text{H}_{18}\text{O}$ by the way of Pd/CaCO_3 ,
after the affiliation of 1 mole H_2 , a reaction delay
was noticed which lead to a selective hydration of
the alcohol and, according to the constants, corresponded
to the citronellol. After its oxidation it formed
citronellic acid and its lactone. The absorption
spectrum reminded the authors of that of β -citronellol
taken within the same range (Ref 6). Concluding the
following results of the reaction of dimethyl vinyl
carbinol with KHSO_4 are mentioned: 1) An allyl re-

Card 2/4